STATE OF CALIFORNIA
GEORGE DEUKMEJIAN, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION
107 SOUTH BROADWAY, SUITE 4027
LOS ANGELES, CALIFORNIA 90012-4596
(213) 620-4460

December 14, 1988

Mr. Eugene J. Fox
Vice President and General Manager
Pacific Airmotive Corporation
2940 N. Hollywood Way
Burbank, CA 91505

SUBSURFACE INVESTIGATION - AB1803 FOLLOW-UP PROGRAM (FILE NO. AB104.0812)

Reference is made to your consultants, Kennedy/Jenks/Chilton, Preliminary Assessment Report Former Underground Solvent Tank Site, dated September 30, 1988, for your Burbank facility.

We have reviewed and evaluated the information contained in your report and have the following comments:

Subsurface Investigation

Test borings B11 and B12 were completed in the north east corner of your facility to evaluate subsurface conditions at three (3) underground solvent storage tanks (Stoddard Solvent) removed from service during December 1983. The reported analytical test results for soil samples obtained to a depth of 42 feet at B11 and to 50 feet at B12, did not detect any petroleum based hydrocarbons in the gasoline, diesel or stoddard solvent range above the limits of detection specified (1-2 mg/kg). Perchloroethylene was detected at both boring locations at depth from 7.5 to 12 feet below land surface in concentrations ranging from .012 mg/kg to .380 mg/kg. Trichloroethylene was only detected at .011 mg/kg at the twelve foot depth in boring B-12. These contaminants appear to be contained within backfill materials which previously surrounded the underground tanks, and appear to be associated with waste solvent tank operations reported in this area. Toluene was the only constituent consistently detected in all soil samples in concentrations ranging from .007 mg/kg to .095 mg/kg. The downward extent of this contaminant in the vadose zone has not been fully identified. However, based upon the analytical test results and the depth to groundwater there appears to be a low potential for any contaminants detected to impact groundwater resources in the area.

As you know, Lockheed Aeronautical Systems Company has installed three (3) groundwater monitoring wells (B-6-CW1, 2 and 3) approximately 20 feet to the east of this tank area. Groundwater

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quality data from sampling, primarily well B-6-CW1 screened in the uppermost saturated zone, will be obtained and evaluated for the presence of toluene. In light of these findings, no remedial soils investigations are required at this time, pending evaluation of groundwater data from well B-6-CW1.

Industrial Waste Clarifier and Sump Inspection

1. Pacific Airmotive corporation operates a total of five (5) sumps and/or industrial waste clarifiers at its Burbank facilities. On August 16, 1988, the boiler and cooling tower blowdown sump and the chemical room sump were visually inspected.

2. Inspection of the boiler and cooling tower blowdown sump revealed cracks around the top of the unit near ground surface, and cracks in the sidewalls approximately two feet from the bottom. We agree with your recommendation to repair the concrete and to retrofit the unit with a stainless steel liner. However, you are also required to notify the City of Burbank Department of Public Works regarding the results of this sump inspection, and obtain any requirements they may have for the planned repair and upgrading of this sump. In addition, in order to evaluate any impacts to the subsurface from the cracks observed in the sump, shallow test borings are required to be completed adjacent to the unit.

3. Inspection of the chemical room sump did not show any cracks and/or leaks on surfaces that were visible at that time. The wooden pedestal placed at the bottom of the unit to support the small stainless steel liner could not be removed and precluded visual inspections of the sump base. Since this sump contains a liner, a complete inspection can be completed during your next routine quarterly inspection. Please notify us prior to the next inspection so we can schedule one of my staff to be present.

   During the inspection of this sump, it was disclosed that it was previously used to contain and transmit used calibration Fluid (Stoddard Solvent) through an underground pipeline to an underground waste holding tank located directly east of the sump adjacent to the fence line. This appears to be one of the tanks removed by your company during December 1983. No subsurface investigations appear to have been completed in this area, to evaluate this solvent storage tank.

4. In order for us to complete our evaluation of all underground tank operations at your facility, you are required to submit a report detailing all existing and past underground tank operations at your facilities located at 2940 N. Hollywood Way and 3003 N. Hollywood Way. Your report must contain the following information at a minimum.

   a. Site map depicting all tank locations.

   b. Date of installation.

   c. Tank capacity, materials of construction, and the locations of any associated subsurface piping

   d. Types of materials stored.

   e. Dates of removal (if applicable).

   f. Please provide us with your planned schedule for upgrading the two (2) 12,000 gallon jet fuel tanks located to the south of Test Cell No. 6.

   This information will be reviewed and a determination made regarding the need for any subsurface investigations where none have been completed to date. However, any underground tank that contained wastes and/or solvent based materials will require subsurface investigations.

5. The three (3) remaining clarifiers/sump, two (2) located at 3003 N. Hollywood Way and one (1) north east of Bldg. No. 2 at 2940 N. Hollywood Way are reportedly on a quarterly inspection program at this time. As agreed, Pacific Airmotive is to submit results of the most recent inspections completed for these units. Also, please notify us prior to the date of your next routine quarterly inspection of these units so we can schedule an inspector to be present.

Your report containing the underground tank information together with your workplan for subsurface investigations at the boiler and cooling tower sump is due to this Regional Board by January 23, 1989.

Reference is also made to your consultants Kennedy/Jenks/Chilton, Preliminary Assessment Report for Drum Storage Areas, dated May 16,

1988, and to the subsequent meeting held at this Regional Boards office on July 12, 1988, regarding the results of these subsurface investigations.

A total of nine (9) shallow test borings were drilled to ten feet below land surface to evaluate five (5) separate areas used for various types of chemical and waste barrel storage, and one (1) test boring to twenty feet below land surface to evaluate potential discharges from the solvent room pipeline located at the north east corner of Bldg. No. 2.

The reported analytical test results for soil samples obtained in the Chemical Waste & Product Storage (Area 1, SB1-4), Spent Thinner Drums Storage (Area 2, SB-5), and solvent Drum Storage (Area 4, SB-6) did not detect the presence of any residual petroleum based hydrocarbons in the gasoline, diesel or jet fuel range, or any chlorinated volatile organics. Toluene was detected in all soil samples except at boring SB-5 at 5 feet below land surface, and ranged from .010 mg/kg to .087 mg/kg.

Soil samples obtained at the Hydraulic Oil Drum Storage (Area 3, SB-7) detected 6,500 mg/kg of Oil and Grease at the one foot depth. However, the sample obtained at 10 feet below land surface was reported as none detected (<40 mg/kg).

The reported analytical test results for soil samples obtained in the Empty Drum Storage (Area 5, SB 9 & 10) did not detect any residual petroleum based hydrocarbons in the gasoline, diesel or jet fuel range. Perchloroethylene and Trichloroethylene were detected at the one foot depth in each boring at .051 mg/kg and .170 mg/kg and .015 mg/kg and .029 mg/kg respectively. At boring SB9, 015 mg/kg of Trichloroethylene was detected at 5 feet below land surface. Toluene was detected in all soil samples and ranged from .011 mg/kg to .570 mg/kg.

Based upon the results of the subsurface investigations completed at the five (5) drum storage areas, Toluene is present in relatively low concentrations throughout the site. However, no further remedial subsurface investigations are required provided that, as proposed, the areas are resurfaced to preclude the downward migration of surface water runoff in these areas, and the chemical/waste storage building is used to store all of your barreled materials. Please notify us when these activities have been completed onsite.

The reported analytical test results for soil samples obtained at the Abandoned Solvent Pipeline did not detect any petroleum based hydrocarbons in the gasoline, diesel or jet fuel range.

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Perchloroethelyne was detected at 3.2 mg/kg (2.5 feet b.l.s.) and at .200 mg/kg (5 feet b.l.s.). Soil samples obtained at 10, 15 and 20 feet below land surface did not detect any chlorinated volatile organics. Toluene was detected in all soil samples ranging from .02 mg/kg to .460 mg/kg. This area lies sufficiently close and further upgradient of the underground solvent tank area, that it will be included as a potential point source if well B-6-CW1 shows the presence of Toluene.

If you have any questions concerning any of the matters listed above, please contact me at (213) 620-5988.

David A Bacharowski

DAVID A. BACHAROWSKI
Environmental Specialist IV

DAB:sml

cc: Mr. Noel Lerner, Kennedy/Jenks/Chilton
Mr. Bill Jones, Los Angeles County, Department of Health Services
Mr. Thyamagandalu, City of Burbank, Department of Public Works
Ms. Alisa Greene, US Environmental Protection Agency, Region 9
Mr. Ron Helgerson, Lockheed Aeronautical Systems Company